| Engineer:<br>Jack Curtis | Date: 4/22/04 | Raytheon   |                         |      |        |    |   |
|--------------------------|---------------|--|-------------------------|------|--------|----|---|
| Drawn:<br>Jack Curtis    | Date: 4/22/04 | JPS Communications 5800 Departure Drive, Raleigh, NC 27616 |                         |      |        |    |   |
| Approved:<br>CTS         | Date: 4/22/04 | Title: ACU RADIO APPLICATION NOTES                         |                         |      |        |    |   |
| Issued/<br>Revised       | Date: 4/22/04 | Size:  | Dwg. #: 5961-271210-APP | Rev: | Sheet: | Of | 1 |

**APPLIES TO:** Motorola GTX Mobile Radio

**RADIO MODIFICATIONS:** None required.

### **RADIO PROGRAMMING:**

1. Mobile radios should normally be programmed for low transmit power.

### **RADIO CONTROLS:**

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio.

## **CABLING:**

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

| ACU-1000 Interface Cable       | JPS P/N 5961-291210 | (5961-271210 + 5961-261002-00) |
|--------------------------------|---------------------|--------------------------------|
| ACU-T Interface Cable          | JPS P/N 5961-281210 | (5961-271210 + 5961-281013-00) |
| TRP-1000 Shelf Interface Cable | JPS P/N 5961-271210 |                                |

Radio RF Connector Type

# **DSP PROGRAMMING:** (See Notes)

| RX Level                    | 3*          | 0dBm*     |
|-----------------------------|-------------|-----------|
| TX Level                    | 6*          | 0dBm*     |
| Squelch Type                | VOX*        |           |
| COR Polarity                | Active Low* |           |
| High Frequency Equalizer    | 4*          | Flat*     |
| RX Audio Delay              | 2*          | 100 ms*   |
| TX Audio Delay (Radio Type) | 0*          | No Delay* |
| Noise Reduction Value       | 0*          | Off*      |
| VOX/VMR Threshold           | 1*          | Med1*     |
| VOX/VMR Hang Time           | 3*          | 775 ms*   |
| COR Inhibit After PTT       | 1*          | 100 ms*   |
| All Others                  | As needed   |           |

(\* Indicates Default Value)

## **NOTES:**

Raytheon JPS Communications has not developed specific settings for this model of radio. Use the generic DSP Setup Procedure to optimize the default values.

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